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VALSPAR SOUCING, INC. [US/US]; 1101 Third
Street South, Minneapolis, MN 55415 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **HEUTS, Martin,**
Peter, Joseph [NL/US]; 13915 Norway Street NW, An-
dover, MN 55304 (US). **JONES, Lonnie** [US/US]; 5433
Park Avenue, Minneapolis, MN 55417 (US).(74) Agent: **ALBIN, Loren, D.**; Muetting, Raasch & Gebhardt,
P.A., P.O. Box 581415, Minneapolis, MN 55458-1415
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For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.(54) Title: POLYMERIZATION OF A REACTIVE DILUENT IN THE PRESENCE OF AN EPOXY-AMINE MATERIAL, AND
COATING COMPOSITIONS PREPARED THEREBY(57) Abstract: A process including the polymerization of a reactive diluent, which is present in an aqueous dispersion that further
includes an epoxy-amine material, is disclosed. The resulting composition is useful as a coating composition.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 932 636 A (NEUMANN UWE ET AL) 3 August 1999 (1999-08-03) claims 1,4,11; examples ---	1,3-16, 19-22, 25-29
X	US 6 201 043 B1 (GROSSE-BRINKHAUS KARL-HEINZ ET AL) 13 March 2001 (2001-03-13) claims 1-19; examples ---	1,3,4, 6-12, 14-16, 18,19, 21,22, 25-29
A	US 5 925 694 A (GODAU CLAUS ET AL) 20 July 1999 (1999-07-20) claim 1; examples -----	1-29

☐ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Marquis, D

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5932636	A	03-08-1999	DE 4422869 A1	04-01-1996
			DE 4436093 A1	11-04-1996
			AT 185160 T	15-10-1999
			AT 184039 T	15-09-1999
			AU 686802 B2	12-02-1998
			AU 2332595 A	18-01-1996
			AU 688900 B2	19-03-1998
			AU 2332695 A	18-01-1996
			AU 688497 B2	12-03-1998
			AU 2332795 A	18-01-1996
			AU 2332895 A	18-01-1996
			AU 677101 B2	10-04-1997
			AU 7756594 A	18-05-1995
			BR 9404304 A	29-02-2000
			CA 2134723 A1	03-05-1995
			CA 2152427 A1	31-12-1995
			CA 2152428 A1	31-12-1995
			CA 2152433 A1	31-12-1995
			CA 2152434 A1	31-12-1995
			CN 1122322 A	15-05-1996
			CN 1120557 A	17-04-1996
			CN 1127264 A	24-07-1996
			CN 1122348 A	15-05-1996
			DE 59506718 D1	07-10-1999
			DE 59506933 D1	04-11-1999
			DE 59510390 D1	31-10-2002
			DK 694578 T3	19-05-2003
			EP 0656384 A2	07-06-1995
			EP 0694578 A2	31-01-1996
			EP 0698591 A1	28-02-1996
			EP 0698630 A1	28-02-1996
			EP 0694579 A2	31-01-1996
			ES 2137410 T3	16-12-1999
			FI 945118 A	03-05-1995
			HU 69052 A2	28-08-1995
			JP 8109149 A	30-04-1996
			JP 8100047 A	16-04-1996
			JP 8109241 A	30-04-1996
			JP 8100045 A	16-04-1996
			JP 7216085 A	15-08-1995
			US 5545678 A	13-08-1996
			US 5616634 A	01-04-1997
			US 6277944 B1	21-08-2001
			US 5708059 A	13-01-1998
US 6201043	B1	13-03-2001	DE 19633769 A1	26-02-1998
			CN 1230205 A	29-09-1999
			WO 9807794 A1	26-02-1998
			EP 0920480 A1	09-06-1999
			JP 2000516647 T	12-12-2000
US 5925694	A	20-07-1999	DE 19536381 A1	03-04-1997
			AT 228538 T	15-12-2002
			AU 6589596 A	10-04-1997
			CA 2186424 A1	30-03-1997
			DE 59609916 D1	09-01-2003
			EP 0770635 A2	02-05-1997
			JP 9111181 A	28-04-1997